

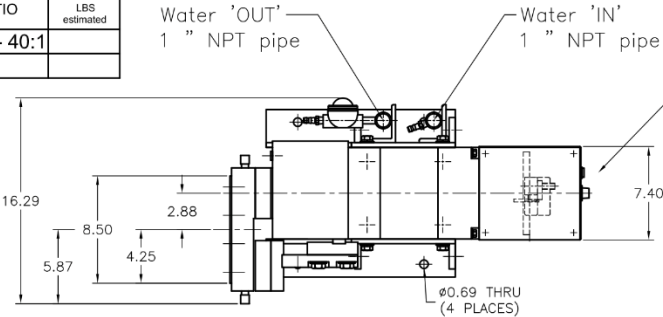
Entron 4.5K LMI – (Roman TDC-6007 & TDC-8342 MFDC Transformers)



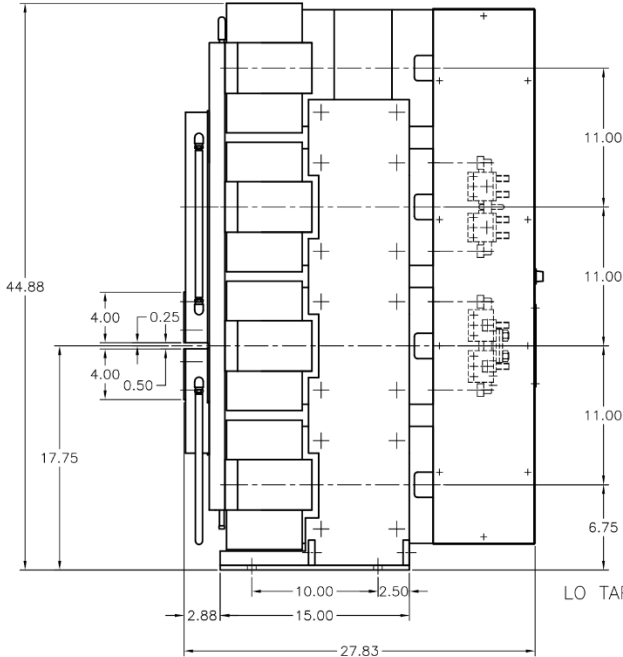
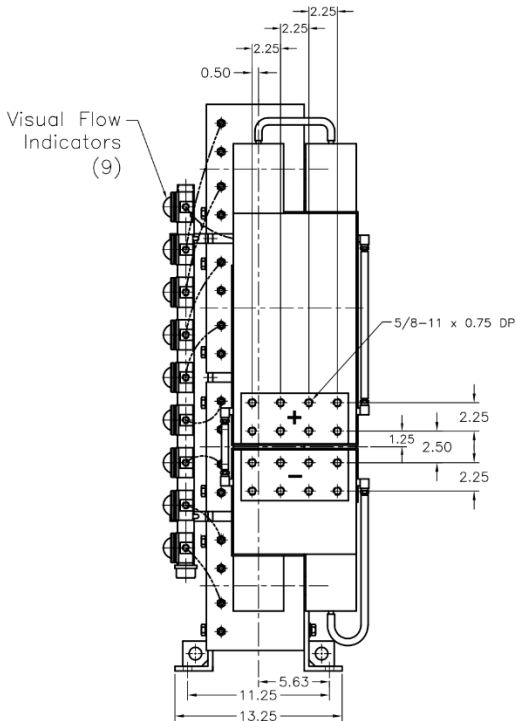
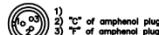
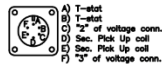
MODEL	KVA @ 50% DUTY CYCLE	PRIMARY VOLT/FREQ	SECONDARY VOLTAGE (DC)	TURNS RATIO	WEIGHT LBS estimated
TDC-6007	600	650/1000Hz	13.00 - 16.25	50:1 - 40:1	

COOLING REQUIREMENTS: 17 GPM @ 30°C

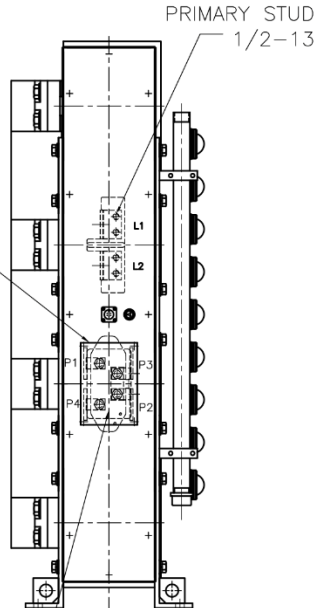
NOTE*
The secondary terminals of this device are intended as an electrical connection only. Applications must be designed to minimize any forces applied to the secondary terminals, this can be accomplished by transferring forces to a structural member.



CONNECTOR PIN OUT



ACCESS COVER



LO TAP-BOTH LINKS 'P2' TO 'P3'
HI TAP-LINK 'P1' TO 'P3'
& 'P2' TO 'P4'

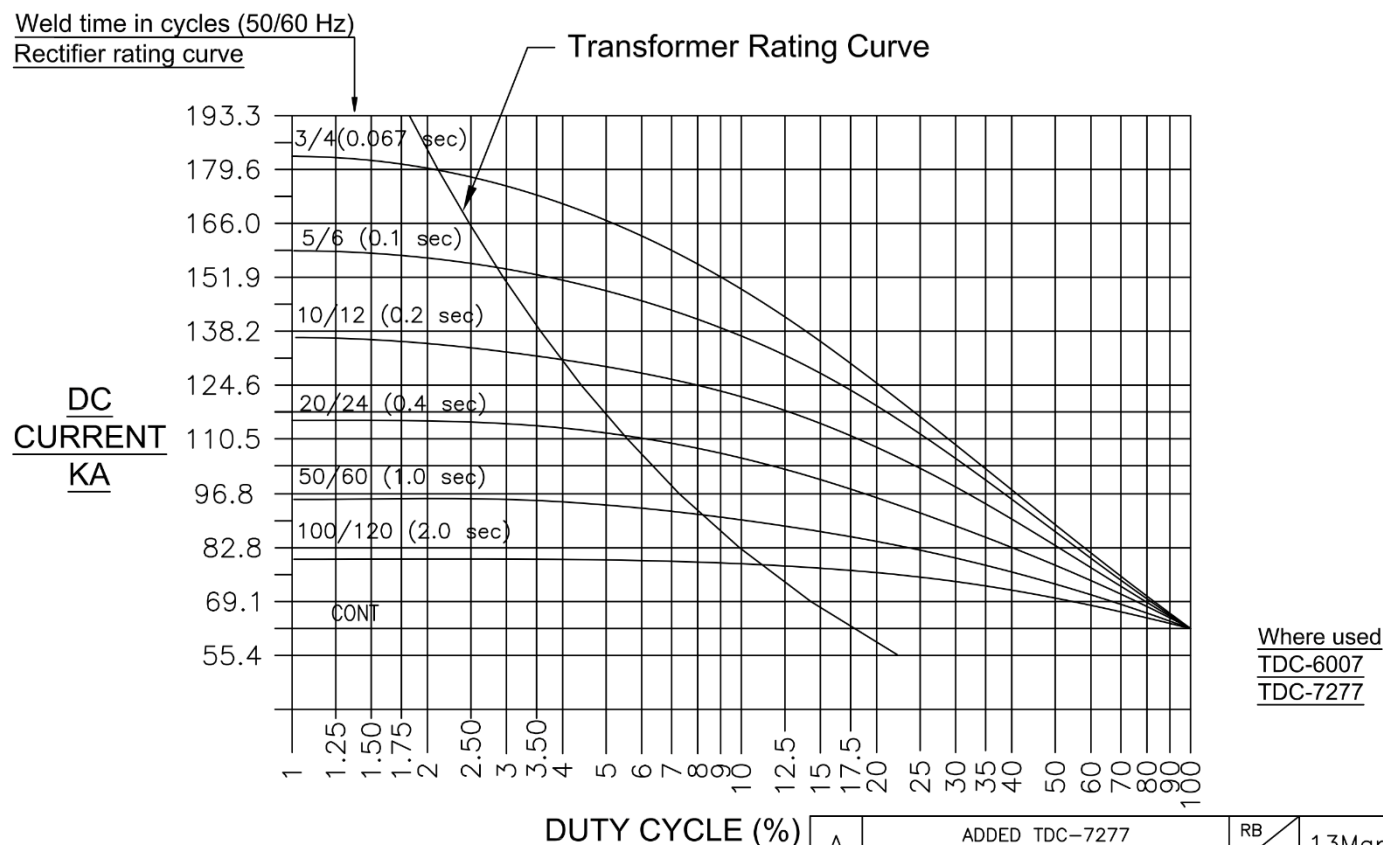
C	REDESIGNED BASE WELDMENT PER ECR 1101	30MAR17
B	ADDED CONNECTOR PIN OUT DATA DESIGNATED L1/L2 for PRI CONN	06Sep07

REV	DESCRIPTION	DATE
A	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
REV	DESCRIPTION	DATE
1	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
2	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
3	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
4	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
5	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
6	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
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99	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07
100	ADDED 11/16 DIA MOUNTING HOLES TO BASE	19JUN07

6007-1



Power Supply Rating Diagram, Single Phase, Center Tap Rectifier.
16 Diode(s) per rectifier leg
32 Diodes total



Notes:

These curves are based on rated water flow of 16 G.P.M (60 L.P.M.).

Maximum water in temperature of 30°C.

For applications above a 20% duty cycle, contact

RoMan Manufacturing for assistance.

Rectifier Rating:

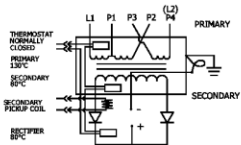
% Duty Cycle is based on shortest time from beginning of one weld to the beginning of next weld. On time/(On + Off time).

Transformer Rating:

% Duty Cycle is total "On" time in one minute.

A	ADDED TDC-7277	RB KLY	13Mar13
REV	DESCRIPTION	DATE	
THIS DRAWING AND ALL THE INFORMATION AND TECHNOLOGY IN IT ARE EXCLUSIVE, CONFIDENTIAL AND PROPRIETARY TO RoMan MFG. INC. THIS DRAWING IS OWNED BY RoMan MFG. INC. AND UNLESS SPECIFICALLY AUTHORIZED IN WRITING, NO COPIES SHALL BE MADE OF THIS DRAWING, AND SHALL BE USED ONLY FOR THE LIMITED PURPOSE FOR WHICH IT IS DISCLOSED AND ONLY TO THE BENEFIT OF RoMan MFG. INC., AND IT AND ANY COPIES, AUTHORIZED OR NOT, SHALL BE IMMEDIATELY RETURNED UPON ANY REQUEST THEREFORE.			
SCALE:	None	DRAWN BY: KLY	
DATE:	21Sep07	APPROX WEIGHT:	
RoMan			
Rating Curve			
	TDC-6007	DRAWING NUMBER: RC-6007	

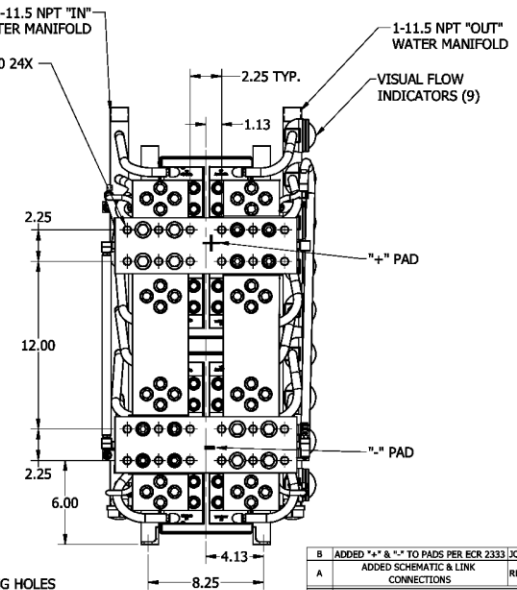
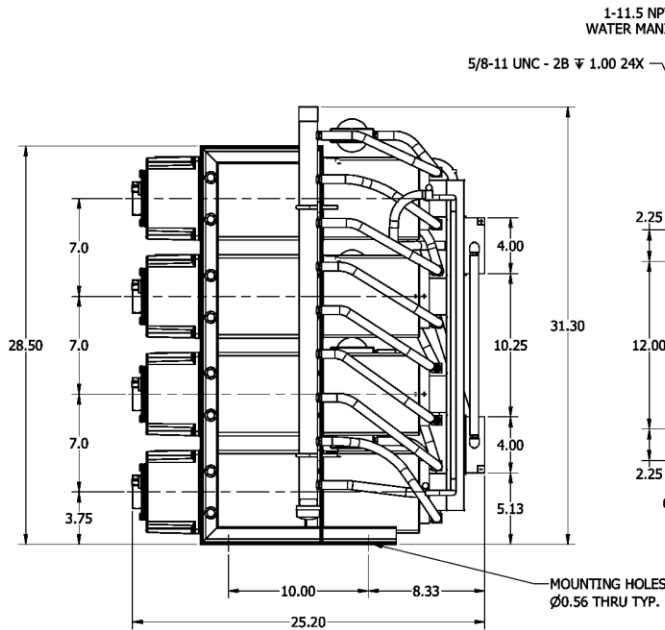
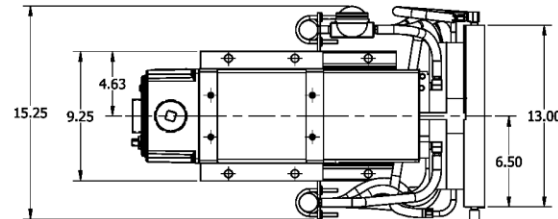
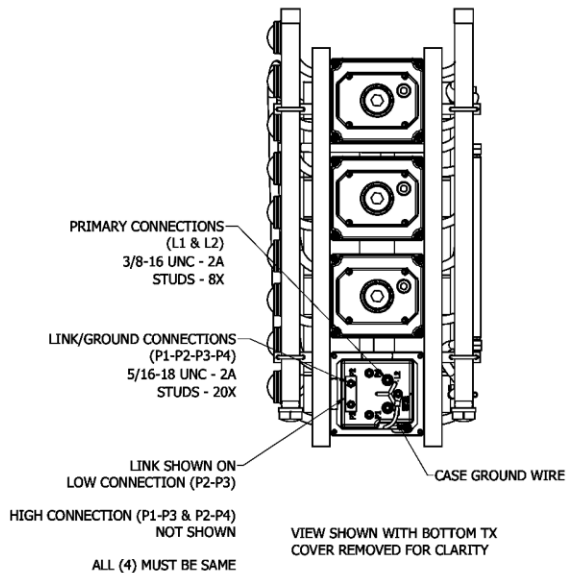
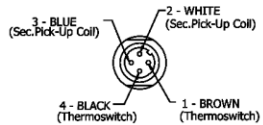
RC-6007



TRANSFORMER CASE MUST BE GROUNDED. TRANSFORMER WILL BE SHIPPED WITH A JUMPER CONNECTING SECONDARY CENTER TAP TO CASE. USER MUST PROVIDE APPROPRIATE GROUNDING OF SECONDARY CIRCUIT.

NOTE:
SECONDARY OUTPUT TERMINALS ARE DESIGNED AS ELECTRICAL CONNECTIONS. MECHANICAL FORCES ON THESE CONNECTIONS MAY VOID WARRANTY.

FOR APPLICATIONS ABOVE A 20% DUTY CYCLE, CONTACT ROMAN MANUFACTURING FOR ASSISTANCE.



MODEL	KVA @ 50% DUTY CYCLE	PRIMARY VOLT/FREQ	APPROX. WEIGHT	SEC. VOLTAGE	TURNS RATIO	LINK CONNECTION	PRIMARY CONNECTION
TDC-8342	900	650V/1000Hz	700 LBS	17.1	38:1	P2-P3	L1 & L2
				23.2	28:1	P1-P3 & P2-P4	L1 & L2

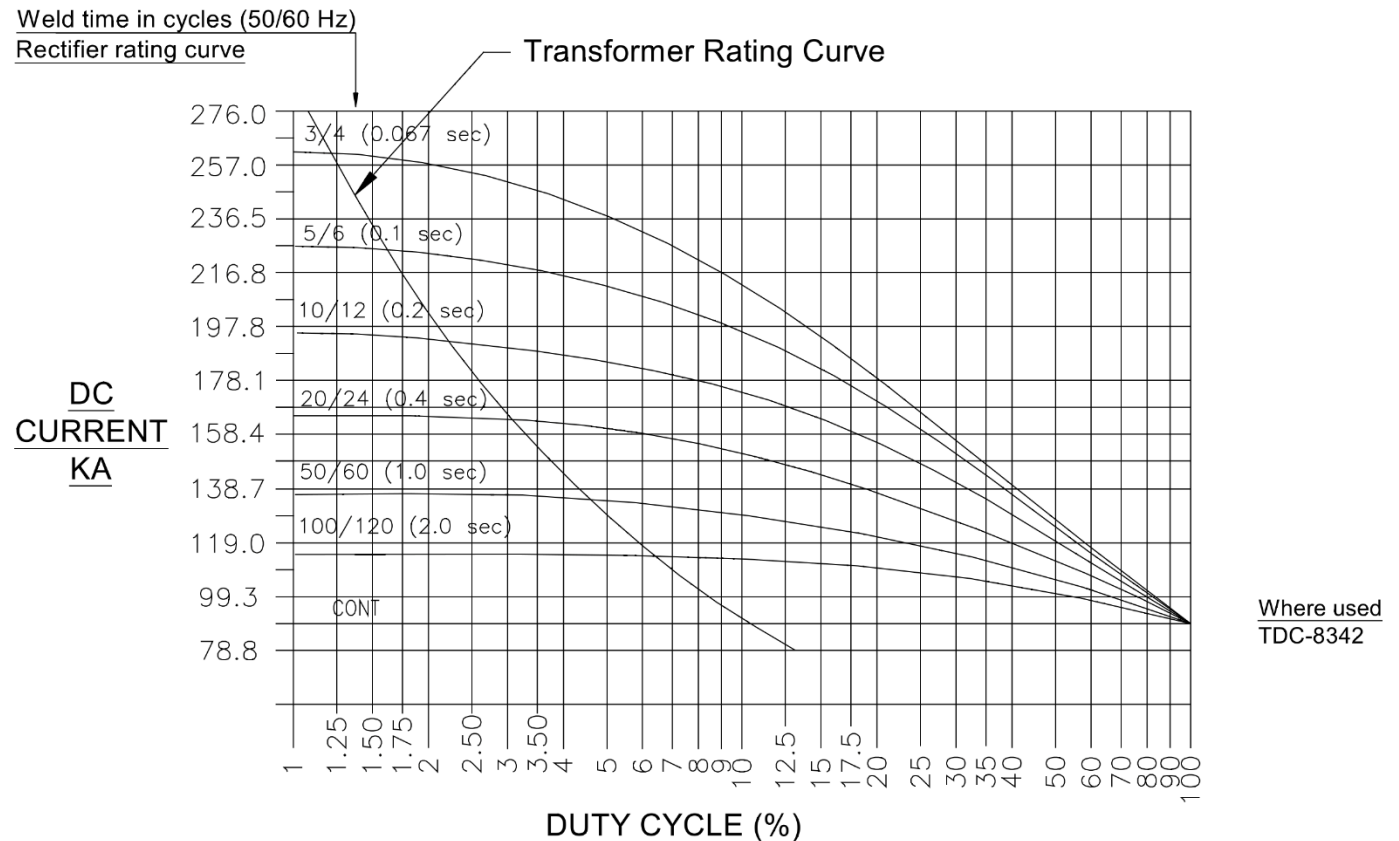
COOLING REQUIREMENTS: 17 GPM MIN. @ 30°C MAX. INLET TEMPERATURE

NOTE*
The secondary terminals of this device are intended as an electrical connection only. Applications must be designed to minimize any forces applied to the secondary terminals, this can be accomplished by transferring forces to a structural member.

REV	DESCRIPTION	DATE
0	ADDED "H+" & "H-" TO PADS PER ECR 2333	1/18/2021
1	ADDED SCHEMATIC & LINK CONNECTIONS	8/1/2019
2	DESCRIPTION	DATE
3	DESCRIPTION	DATE
4	DESCRIPTION	DATE
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100	DESCRIPTION	DATE



Power Supply Rating Diagram, Single Phase, Center Tap Rectifier. Size "24" Rectifier



Notes:

These curves are based on rated water flow of 12 G.P.M (45 L.P.M.).

Maximum water in temperature of 30°C.

For applications above a 20% duty cycle, contact

Roman Manufacturing for assistance.

Rectifier Rating:

% Duty Cycle is total "On" time in 2.5 Seconds.

Transformer Rating:

% Duty Cycle is total "On" time in one minute.

REV	DESCRIPTION	DATE
1	Initial Release	11/19/19
2	Added Description	11/19/19
3	Added Description	11/19/19
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SCALE: NONE
DATE: 26JUL19
DRAWN BY: KLY
APPROX WEIGHT:
RATING CURVE
TDC-8342
DRAWING NUMBER: RC8342